

## 20-20-20 SOLUBLE FERTILIZER WITH MINOR ELEMENTS ECONO-GROW 20-20-20 SOLUBLE FERTILIZER MATERIAL SAFETY DATA SHEET

### Manufacturer's Name & Address

Southern Agricultural Insecticides, Inc.  
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### I NOMENCLATURE

**Product Names:** 20-20-20 SOLUBLE FERTILIZER  
ECONO-GROW 20-20-20 SOLUBLE FERTILIZER

**Chemical Name:** Not applicable (mixture of fertilizer materials)

### II INGREDIENTS

	<b>CAS #</b>	<b>OSHA</b>	<b>DOT Hazard</b>
Potassium nitrate (KNO <sub>3</sub> )	7757-79-1	None	Oxidizer
Mono ammonium phosphate (MAP)	7727-76-1	None	None
Diammonium phosphate (DAP)	7783-28-0	None	None
Urea	57-13-6	None	None
Iron EDTA	15708-41-5	TWA (Fe) 1 mg/M	Corrosive to Aluminum
Manganese disodium EDTA	15375-84-5	Ceiling (Mn) 5 mg/M <sup>3</sup>	Corrosive to Aluminum
Zinc disodium EDTA	14025-21-9	None	Corrosive to Aluminum
Copper disodium EDTA	14025-15-1	TWA Dust (Cu) 1 mg/M <sup>3</sup>	Corrosive to Aluminum
Sodium molybdate	7631-95-0	TWA (Mo) 5 mg/M <sup>3</sup>	None
Disodium Octaborate Tetrahydrate	12008-41-2	None	None
Dust exposure limits PNOR	OSHA (respirable)	TWA 5 mg/M <sup>3</sup> (total dust) TWA 15 mg/M <sup>3</sup>	ACIGH 10 mg/M <sup>3</sup>

### III PHYSICAL PROPERTIES (ND=Not determined, NA=Not applicable)

**Boiling Point:** decomposes on heating

**Bulk Density:** approx. 50 lb/ft<sup>3</sup>

**Vapor pressure:** (mmHg ND)

**Percent Volatile:** (by volume) ND

**Vapor Density:** (air=1) ND

**Evaporation Rate:** ND

**Solubility In Water:** Soluble

**Reactivity in Water:** Negligible, (acidic)

**Appearance/Odor:** Light blue, fine crystalline powder, practically no odor

### IV FIRE AND EXPLOSION DATA

**Flash Point:** ND decomposes on heating. Decomposition begins @ 212° F (DAP)

**Flammable Limits:** N/D

**Extinguishing Media:** Use water spray to cool containers. Product contains oxidizers which can provide oxygen to support fire and cause some combustible materials to ignite explosively.

**Special Fire Fighting Procedures:** If it can be done without risk, remove material from fire area and spread containers to cool. Personnel should remain upwind. Firemen should wear self contained breathing apparatus (air-pac) and full protective clothing.

**Unusual Fire Explosion Hazards:** Under fire conditions, toxic fumes may be evolved. Do not breathe smoke or vapors generated. Keep dust to a minimum. The presence of powerful oxidizing agents will increase intensity of existing fires and the possibility of an explosion exists.

### V FIRST AID

**First Aid for EYE Exposure:** Flush eyes with gentle stream of clean water for 15-30 minutes, lifting upper and lower lids occasionally while flushing. Get medical attention if irritation occurs.

**First Aid for SKIN Exposure:** Remove contaminated clothing and wash all exposed skin surfaces thoroughly with soap and water. If irritation develops, see a physician.

**First Aid for INGESTION:** If person is conscious give large amount of water. Induce vomiting unless medical attention is immediately available. Seek immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

**First Aid for INHALATION:** Remove to fresh air. If effects occur, consult physician immediately.

**SYMPTOMS of OVEREXPOSURE:** May irritate eyes, nose, throat and skin.

Ingestion of large quantities can cause nitrate poisoning.

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**VI HEALTH HAZARD DATA**

**Carcinogenicity:** IARC-NO NTP-NO OSHA-None known within reporting levels.

**Routes of entry:** Inhalation, skin and ingestion.

**Inhalation:** Irritating.

**Skin:** Not expected to be hazardous.

**Ingestion:** Low toxicity. Ingestion of large amounts may cause nitrate poisoning, dizziness, abdominal cramps, bloody diarrhea, weakness, convulsions and collapse.

**VII REACTIVITY**

**Stability:** Stable under normal use and storage conditions.

**Conditions to avoid:** Heat and ignition sources.

**Materials to Avoid:** Oxidizing agents, organic materials, particularly oils, and other flammable or combustible materials, strong alkali, reducing agents, chlorine bleaches.

**Hazardous Decomposition Products:** Decomposes under fire conditions to release ammonia oxides of nitrogen, phosphorus, potassium, carbon, cyanuric acid and biuret.

**Hazardous Polymerization:** Will not occur.

**VIII SPILL OR LEAK PROTECTION**

**Steps To Be Taken If Spilled:** Sweep up and shovel into secure labeled container for disposal or use. Avoid unnecessary dust.

**Waste Disposal:** Residue that can not be used as fertilizer should be disposed of according to local, State, and Federal regulations.

**IX SPECIAL PROTECTION**

**Note:** When this product is used in combination with pesticides, the safety precautions for those pesticides must also be followed.

**Respiratory: Type/Conditions:** Not normally needed under use conditions. Where adequate ventilation is not available, or where TWA would be exceeded, wear a NIOSH approved dust respirator.

**Ventilation:** Product is intended for use outdoors. If used indoors, use local exhaust ventilation to minimize dust exposure.

**Gloves:** Not normally needed. If for prolonged or repeated use, wear clean impervious gloves to minimize exposure.

**Eye Protection:** Safety glasses with side shields or chemical goggles.

**Other protective equipment:** Clean, freshly laundered, body covering work clothing daily. Washing facility and eyewash station should be available.

**X SPECIAL PRECAUTIONS**

**Handling Precautions:** Avoid personal contact with product. When applied as a spray avoid breathing spray mist. If used in combination with pesticides follow all safety precautions for the pesticides used. Wash thoroughly after use. Do not wear contaminated clothing.

**Storing Precautions:** Do not place leaking or damaged containers into storage. Store in cool, dry, well ventilated area away from excessive heat ignition sources. Do not store with indicated "Materials to avoid" see section VII. Do not store on oil contaminated floors. When storing leave air space between adjacent stacks and adjacent building walls.

**Other Precautions:** KEEP OUT OF REACH OF CHILDREN and domestic animals. Do not contaminate any body of water by cleaning equipment or disposal of waste.

**XI TRANSPORTATION**

Not DOT regulated.

Manufactured fertilizer compounds, N.O.I., NMFC 68140 sub 5

This information relates solely to the designated product and is not inclusive for combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL.